Should the Examiner have any questions or concerns regarding this application, the undersigned would be pleased to discuss such issues by telephone.

Respectfully submitted,

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I hereby certify that this Request For Interference and Response to Office Action (along with any documents referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Hon. Commissioner for Patents, Washington, D.C. 20231.

May 23, 2002 (date)



PATENT Attorney Docket No. 216395

Attorney Docket No. 2163

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit: 3634

Examiner: E. Harris

In re Application of:

HERZOG, et al.

Application No. 09/973,389

Filed: October 9, 2001

For: STORAGE RACK SYSTEM AND

LOCKING LATCH THEREFOR

APPENDIX A - AMENDMENTS TO CLAIMS MADE IN RESPONSE TO OFFICE ACTION DATED FEBRUARY 28, 2002

### **Amendments To Existing Claims**

15. (Amended) A latch assembly useable for locking a beam member connected to a post with a headed lug, comprising:

a beam flange having first and second opposite sides, and a first locking pin opening, and a second resilient art retention opening;

a resilient arm having a portion thereof coupled to the first side of the beam flange;

a locking pin extending from the resilient arm, the locking pin protruding through the locking pin opening,

the resilient arm biasing the locking pin through the locking pin opening of the beam flange; and

a locking flange extending from the locking pin, a portion of the locking flange

In re Appln. of Herzog, et al. Serial No. 09/973,389

disposed alongside the second side of the beam flange.

- 23. (Amended) The latch assembly of Claim 22, the beam flange having first and second openings disposed symmetrically thereon, one of the first and second openings is the locking pin opening, wherein the flange recess is disposed between the first and second openings locking pin opening and the resilient arm retention opening.
- 27. (Amended) A flex-limited, latching, locking latch and beam combination, comprising:
- a heam flange having an opening through the flange and a flexible arm retention slot;
  - a flexible arm having a portion coupled to a side of the flange;
- a locking portion extending from the resilient flexible arm, the locking portion protruding through the flange opening; and
- a flex limiting member extending from the locking portion along a side of the flange opposite the side thereof to which the flexible arm is coupled,

whereby the flex limiting member is engageable with the side of the flange along which it extends to limit flexing of the flexible arm away from the side of the flange to which the flexible arm is coupled.

28. (Amended) The latch of Claim 27, a recess disposed on the side of the

flange opposite the side thereof to which the flexible arm is coupled, a portion of the flex limiting member disposable in the recess when the flexible arm is flexed away from the side of the flange to which the flexible arm is coupled.

- 32. (Amended) A flex-limited, latching, locking latch and beam combination, comprising:
- a beam flange having an opening through the flange and a flexible arm retention slot;
  - a flexible arm having a portion coupled to a side of the flange;
- a locking portion extending from the resilient flexible arm, the locking portion protruding through the flange opening;
- a flex limiting member extending from the locking portion along a side of the flange opposite the side thereof to which the flexible arm is coupled; and
- a recess disposed on the side of the flange opposite the side thereof to which the flexible arm is coupled,

wherein a portion of the flex limiting member is disposable in the recess when the flexible arm is flexed away from the side of the flange to which the flexible arm is coupled.



PATENT Attorney Docket No. 216395

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit: 3634

Examiner: E. Harris

In re Application of:

HERZOG, et al.

Application No. 09/973,389

Filed: October 9, 2001

For: STORAGE RACK SYSTEM AND

LOCKING LATCH THEREFOR

### APPENDIX B - PENDING CLAIMS AFTER AMENDMENTS MADE IN RESPONSE TO OFFICE ACTION DATED FEBRUARY 28, 2002

15. A latch assembly useable for locking a beam member connected to a post with a headed lug, comprising:

a beam flange having first and second opposite sides, a first locking pin opening, and a second resilient art retention opening;

a resilient arm having a portion thereof coupled to the first side of the beam flange;

a locking pin extending from the resilient arm, the locking pin protruding through the locking pin opening,

the resilient arm biasing the locking pin through the locking pin opening of the beam flange; and

a locking flange extending from the locking pin, a portion of the locking flange disposed alongside the second side of the beam flange.

- 16. The latch assembly of Claim 15, the locking flange is a single lobe extending generally radially from a side portion of the locking pin.
- 17. The latch assembly of Claim 16, the beam flange having a tooth recess on the second side thereof, a tooth protrudes from the locking flange toward the resilient arm, the tooth extends toward the locking pin and is engageable with the tooth recess.
- 18. The latch assembly of Claim 15, the locking flange comprises first and second lobes extending from generally opposing sides of the locking pin.
- 19. The latch assembly of Claim 15, the resilient arm having first and second legs protruding from an end portion thereof, each leg has a wing member extending outwardly away from the wing member of the other leg and generally parallel to the resilient arm.
- 20. The latch assembly of Claim 15 further comprising a plurality of protrusions extending from the same side of the resilient arm as the locking pin.
- 21. The latch assembly of Claim 15, a flange recess on the second side of the beam flange, the locking flange extending generally radially from the end portion of the locking pin and disposed adjacent the flange recess, whereby the locking flange is engageable with the flange recess to limit flexing of the resilient arm.

- 22. The latch assembly of Claim 21, a tooth recess in the flange recess, the locking flange angled toward the resilient arm, a tooth protruding from the locking flange toward the resilient arm, the tooth extends toward the locking pin and is engageable with the tooth recess.
- 23. The latch assembly of Claim 22, wherein the flange recess is disposed between the locking pin opening and the resilient arm retention opening.
- 24. The latch assembly of Claim 22, each opening of the beam flange has an aperture portion located near the flange recess and a slot portion extending away from the flange recess, each slot portion is formed in a slot recess on the second side of the beam flange.
- 25. The latch assembly of Claim 21, the locking flange comprises first and second lobes extending from generally opposing sides of the locking pin.
- 26. The latch assembly of Claim 25, the beam flange having first and second openings, each opening of the beam flange has an aperture portion and a slot portion, the slot portion is formed in a slot recess on the second side of the beam flange, the slot

portion of one opening adjacent the aperture portion of the other opening, one of the openings is the locking pin opening and the slot recess thereof is the flange recess.

- 27. A flex-limited, latching, locking latch and beam combination, comprising:
- a beam flange having an opening through the flange and a flexible arm retention slot;
  - a flexible arm having a portion coupled to a side of the flange;
- a locking portion extending from the flexible arm, the locking portion protruding through the flange opening; and
- a flex limiting member extending from the locking portion along a side of the flange opposite the side thereof to which the flexible arm is coupled,

whereby the flex limiting member is engageable with the side of the flange along which it extends to limit flexing of the flexible arm away from the side of the flange to which the flexible arm is coupled.

28. The latch of Claim 27, a recess disposed on the side of the flange opposite the side thereof to which the flexible arm is coupled, a portion of the flex limiting member disposable in the recess when the flexible arm is flexed away from the side of the flange to which the flexible arm is coupled.

- 29. The latch of Claim 28, the flex limiting member not protruding substantially beyond the side of the flange along which the flex limiting member extends when the flex limiting member is disposed in the recess.
- 30. The latch of Claim 27, the locking portion is a generally cylindrical-shape member extending from the flexible arm, the flex limiting member is a deformed portion of the cylindrical-shape member.
- 31. The latch of Claim 30, a recess disposed on the side of the flange opposite the side thereof to which the resilient arm is coupled, the locking pin and the flex limiting member not protruding beyond the side of the beam flange opposite the side thereof to which the flexible arm is coupled.
- 32. A flex-limited, latching, locking latch and beam combination, comprising:
- a beam flange having an opening through the flange and a flexible arm retention slot;
  - a flexible arm having a portion coupled to a side of the flange;
- a locking portion extending from the flexible arm, the locking portion protruding through the flange opening;

a flex limiting member extending from the locking portion along a side of the flange opposite the side thereof to which the flexible arm is coupled; and

a recess disposed on the side of the flange opposite the side thereof to which the flexible arm is coupled,

wherein a portion of the flex limiting member is disposable in the recess when the flexible arm is flexed away from the side of the flange to which the flexible arm is coupled.

- 33. The latch of Claim 32, the flex limiting member not protruding substantially beyond the side of the flange along which the flex limiting member extends when the flex limiting member is disposed in the recess.
- 34. The latch of Claim 33, the locking portion is a generally cylindrical-shape member extending from the flexible arm, the flex limiting member is a deformed portion of the cylindrical-shape member, the locking portion not extending substantially beyond the side of the flange along which the flex limiting member extends when the flex limiting member is disposed in the recess.
  - 35. A locking member for a rack, comprising:

a mounting bracket, having a first leg defining a substantially flat interior surface and an exterior surface and a plurality of mounting studs projecting inwardly from said interior surface, said first leg also defining at least a first through hole;

a resilient member mounted on said first leg, lying adjacent to said exterior surface, and including a locking pin having a shank extending through said first hole, wherein said locking pin defines an enlarged head portion and said interior surface defines a recess adjacent to said first hole which receives said enlarged head portion.

- 36. A locking member for a rack as recited in claim 35, wherein said recess is deep enough to permit said locking pin to be substantially flush with said interior surface when said resilient member is retracted.
- 37. A locking member for a rack as recited in claim 36, wherein said first hole includes an enlarged-width portion large enough to permit the head of said locking pin to pass through and a narrower width portion large enough to permit the shank to pass through but too narrow to permit said enlarged head to pass through, and wherein said recess lies adjacent to said narrower width portion.
- 38. A locking member for a rack as recited in claim 36, wherein said resilient member is staked to said first leg at an end distant from said locking pin.

- 39. A locking member for a rack as recited in claim 36, wherein said first leg also defines a second hole, and wherein both said first and second holes define an enlarged width portion and a reduced width portion, and wherein said interior surface defines recesses adjacent to the reduced-width portion of each of said holes.
- 40. A locking member for a rack as recited in claim 37, wherein said first leg also defines a second hole, and wherein both said first and second holes define an enlarged width portion and a reduced width portion, and wherein said interior surface defines recesses adjacent to the reduced-width portion of each of said holes.
- 41. A locking member for a rack as recited in claim 39, wherein said resilient member includes a clip having left and right wings mounted in the recess of said second hole.
- 42. A locking member for a rack as recited in claim 36, and further comprising a hole in said resilient member aligned with a hole in said first leg.
- 43. A mounting bracket for mounting a horizontal beam of a rack on a vertical member of a rack, comprising:
- an L-shaped member, having a substantially flat interior surface and an exterior surface and defining first and second legs, said first leg having two lugs protecting

inwardly from its interior surface and defining first and second holes, said second hole having a narrow width portion, and wherein said interior surface defines a recess adjacent to said narrow width portion.

- 44. A mounting bracket as recited in claim 43, and further comprising a resilient member mounted on said first leg, said resilient member including a clip extending through said second hole and retained in said recess.
- 45. A mounting bracket as recited in claim 44, wherein said resilient member further includes a locking pin which extends through said first hole.
- 46. A mounting bracket as recited in claim 45, wherein said locking pin has a shank and an enlarged head and said first hole defines an enlarged width portion large enough to permit the enlarged head to pass through and a narrower width portion, which is wide enough to permit the shank to pass through but not wide enough to permit the enlarged head to pass through.
- 47. A mounting bracket as recited in claim 46, wherein said interior surface also defines a recess adjacent to the narrower width portion of said first hole, in order to permit the enlarged head to be retracted to a position substantially flush with said interior surface.

### 48. A rack, including:

a plurality of vertical members defining a plurality of vertical member holes, and a plurality of horizontal beams supported on said vertical members;

a mounting bracket at the end of one of said horizontal beams, including an L-shaped member, having a substantially flat interior surface and an exterior surface and defining first and second legs, said first leg having at least two lugs projecting inwardly from its interior surface, said two lugs being received in two of said vertical member holes; wherein said first leg defines first and second holes, at least said first hole being aligned with one of said vertical member holes, each of said first and second holes having an enlarged width portion and a narrower width portion, wherein said interior surface defines a recess adjacent to each of said narrower width portions, and the recess adjacent to the narrower width portion of said second hole terminates short of its respective enlarged width portions; and

a resilient locking member including a clip mounted in the recess of said second hole, with said vertical member preventing said clip from moving further inwardly, and including a locking pin having a shank and an enlarged head, wherein the shank extends through said first hole and through the vertical member hole aligned with said first hole.

49. A method of assembling and disassembling a storage rack system, the method comprising the steps of:

providing a beam member including a headed lug, a spaced apart opening, and a recess;

connecting a latch assembly to the beam member, the latch assembly including a resilient arm and a locking pin extending from the resilient arm, such that the resilient arm biases the locking pin through the opening in the beam member;

connecting the beam member to a post, such that the headed lug is received by a first opening in the post, and such that the resilient arm biases the locking pin at least partially into a second opening in the post; and

wherein the steps of disassembling the storage rack system include,
withdrawing the locking pin from the second opening in the post to allow the
beam member to be disconnected from the post;

preventing the locking pin from being completely withdrawn from the second opening in the beam member, such that the recess in the beam member limits the movement of the resilient arm; and

disconnecting the beam member from the post.

50. A locking latch arrangement for a storage rack system, comprising:
a beam flange having a plurality of mounting studs projecting inwardly for
connecting the beam flange to a post, the beam flange including an inner surface and the
beam flange also defining at least a first locking pin opening;

a resilient arm latch mounted on the beam flange, lying adjacent to the exterior surface of the beam flange, and including a locking pin extending through the locking pin opening, wherein the locking pin shank includes a locking flange and wherein the inner surface of the beam flange includes a flange recess area adjacent to the locking pin opening to accommodate the locking flange.

- 51. The locking latch arrangement of claim 50, wherein the recess is deep enough to permit the locking pin and locking flange to be substantially flush with the interior surface of the beam flange when the resilient arm latch is retracted.
- 52. The locking latch arrangement of claim 51, wherein the locking pin opening includes an aperture portion large enough to permit the locking pin and locking flange to pass through and a slot portion large enough to permit the locking pin to pass through but too narrow to permit the locking flange to pass through, and wherein the recess lies adjacent to the slot portion.
- 53. The locking latch arrangement of claim 51, wherein the resilient arm is fastened to the beam flange at an end distant from the locking pin.
- 54. The locking latch arrangement of claim 51, wherein the beam flange also defines a second opening, and wherein both the first and second openings define an

aperture portion and a slot portion, and wherein the beam flange inner surface defines recesses adjacent to the slot portion of each of the openings.

- 55. The locking latch arrangement of claim 52, wherein the beam flange defines a second opening and wherein both the first and second openings define an aperture portion and a slot portion, and wherein the beam flange inner surface defines recesses adjacent to the slot portion of each of the openings.
- 56. The locking latch arrangement of claim 54, wherein the resilient arm latch includes a clip having left and right wings mounted in the recess of the second opening.
- 57. The locking latch arrangement of claim 51, wherein the resilient arm latch includes a hole which may be aligned with an opening in the beam flange.
- 58. A beam flange for mounting a horizontal beam of a rack on a vertical member of a rack, comprising:

an L-shaped flange, having a substantially flat interior surface and an exterior surface and defining first and second legs, the first leg having two lugs protecting inwardly from its interior surface and defining first and second openings, the second opening having a slot portion, and wherein the interior surface defines a recess adjacent to slot portion.

- 59. The beam flange of claim 58, and further comprising a resilient latch mounted on the first leg, the resilient latch including a clip extending through the second opening and retained in the recess.
- 60. The beam flange of claim 59, wherein the resilient latch further includes a locking pin which extends through the first opening.
- 61. The beam flange of claim 60, wherein the locking pin has a shank and a locking pin flange and the first opening defines an enlarged aperture large enough to permit the locking pin flange to pass through and a slot, portion, which is wide enough to permit the shank to pass through but not wide enough to permit the locking pin flange to pass through.
- 62. The beam flange of claim 61, wherein the interior surface also defines a recess adjacent to the slot portion of the first opening, to permit the locking pin flange to be retracted to a position substantially flush with the interior surface.

### 63. A rack, including:

a plurality of vertical posts defining a plurality of vertical post holes, and a plurality of horizontal beams supported on the vertical posts;

a mounting bracket at the end of one of the horizontal beams, including an L-shaped member, having a substantially flat interior surface and an exterior surface and

defining first and second legs, the first leg having at least two lugs projecting inwardly from its interior surface, the two lugs being received in two of the vertical post holes; wherein the first leg defines first and second openings, at least the first opening being aligned with one of the vertical post holes, each of the first and second openings having an enlarged aperture and a slot portion, wherein the interior surface defines a recess adjacent to each of the slot portions; and

a resilient latch including a clip mounted in the recess of the second opening, with the vertical post preventing the clip from moving further inwardly, and including a locking pin having a shank and a locking pin flange, wherein the shank extends through the first opening and through the vertical post hole aligned with the first opening.

# APPENDIX C

# CLAIM COMPARISON OF PENDING CLAIMS AND '109 PATENT CLAIMS

Present Patent Application Claims		
35. A locking member for a rack, comprising:	50. A locking latch arrangement for a storage rack system, comprising:	<ol> <li>A locking member for a rack, comprising:</li> </ol>
a mounting bracket, having a first leg defining a substantially flat interior surface and an exterior surface and a plurality of mounting studs projecting inwardly from said interior surface, said first leg also defining at least a first through hole;	a beam flange having a plurality of mounting studs projecting inwardly for connecting the beam flange to a post, the beam flange including an inner surface and the beam flange also defining at least a first locking pin opening;	a mounting bracket, having a first leg defining a substantially flat interior surface and an exterior surface and a plurality of mounting studs projecting inwardly from said interior surface, said first leg also defining at least a first through hole;
first urface, a shank herein l head ines a	a resilient arm latch mounted on the beam flange, lying adjacent to the exterior surface of the beam flange, and including a locking pin extending through the locking pin opening, wherein the locking pin shank includes a locking flange and wherein the includes a locking flange and wherein the inner surface of the beam flance includes a	a resilient member mounted on said first leg, lying adjacent to said exterior surface, and including a locking pin having a shank extending through said first hole, wherein said locking pin defines an enlarged head portion and said interior surface defines a
· · · · · · · · · · · · · · · · · · ·	includes a locking flange and wherein the inner surface of the beam flange includes a flange recess area adjacent to the locking pin opening to accommodate the locking flange.	said locking pin defines an enlarged he portion and said interior surface define recess adjacent to said first hole which receives said enlarged head portion.
	51. The locking latch arrangement of claim 50, wherein the recess is deep enough to permit the locking pin and	2. A locking member for a rack as rec in claim 1, wherein said recess is deep enough to permit said locking pin to be
face	locking flange to be substantially flush with	substantially flush with said interior surface

Present Patent Application Claims	Present Patent Application Claims	'109 Patent Claims
when said resilient member is retracted.	the interior surface of the beam flange when the resilient arm latch is retracted.	when said resilient member is retracted.
37. A locking member for a rack as recited in claim 36, wherein said first hole	52. The locking latch arrangement of	3. A locking member for a rack as recited
includes an enlarged-width portion large	includes an anerthre nortion large enough	an enlarged width portion large around to
enough to permit the head of said locking	to permit the locking pin and locking	permit the head of said locking pin to pass
pin to pass through and a narrower width	flange to pass through and a slot portion	through and a narrower width portion large
portion large enough to permit the shank to	large enough to permit the locking pin to	enough to permit the shank to pass through
pass through but too narrow to permit said	pass through but too narrow to permit the	but too narrow to permit said enlarged head
enlarged head to pass through, and wherein	locking flange to pass through, and wherein	to pass through, and wherein said recess
said recess lies adjacent to said narrower	the recess lies adjacent to the slot portion.	lies adjacent to said narrower width
38. A locking member for a rack as	53 The locking latch arrangement of	A loding month for the state of
recited in claim 36, wherein said resilient	_	in claim 2 wherein said resilient member is
member is staked to said first leg at an end	fastened to the beam flange at an end	staked to said first leg at an end distant
distant from said locking pin.	distant from the locking pin.	from said locking pin.
39. A locking member for a rack as	54. The locking latch arrangement of	5. A locking member for a rack as recited
recited in claim 36, wherein said first leg	claim 51, wherein the beam flange also	in claim 2, wherein said first leg also
also defines a second hole, and wherein	defines a second opening, and wherein both	defines a second hole, and wherein both
both said first and second holes define an	the first and second openings define an	said first and second holes define an
enlarged width portion and a reduced width	aperture portion and a slot portion, and	enlarged width portion and a reduced width
portion, and wherein said interior surface	wherein the beam flange inner surface	portion, and wherein said interior surface
dennes recesses adjacent to the reduced-	defines recesses adjacent to the slot portion	defines recesses adjacent to the reduced-
width portion of each of said holes.	of each of the openings.	width portion of each of said holes, at least
		the recess at the second hole terminating
		short of its respective enlarged width
40. A locking member for a rack as	55. The locking latch arrangement of	6 A locking member for a rock as recited
recited in claim 37, wherein said first leg	claim 52, wherein the beam flange defines	$\hat{}$
also defines a second hole, and wherein	<del>~</del>	defines a second hole, and wherein both
	****	comics a second note, and wherein both

Present Patent Application Claims	Procent Potent Application Claims	
hath said first and spoond halos dating a	Troche acent Application Claims	109 Patent Claims
enlarged width portion and a reduced width portion, and wherein said interior surface	and second openings define an aperture portion and a slot portion, and wherein the beam flange inner surface defines recesses	said first and second holes define an enlarged width portion and a reduced width
defines recesses adjacent to the reduced- width portion of each of said holes.	adjacent to the slot portion of each of the	portion, and wherein said interior surface defines recesses adjacent to the reduced-
The person of chort of said Holes.	openings.	the recess at the second hole terminating
1		short of its respective enlarged width portion.
recited in claim 39, wherein said resilient	56. The locking latch arrangement of claim 54, wherein the resilient arm latch	7. A locking member for a rack as recited in claim 5 wherein said resilient member
member includes a clip having left and	includes a clip having left and right wings	includes a clip having left and right wings
second hole.	opening.	mounted in the recess of said second hole.
42. A locking member for a rack as	57. The locking latch arrangement of	8. A locking member for a rack as recited
recited in claim 36, and further comprising	claim 51, wherein the resilient arm latch	in claim 2, and further comprising a hole in
a hole in said first lea	includes a hole which may be aligned with	said resilient member aligned with a hole in
ket for mounting	50 A boom flows for	said first leg.
horizontal beam of a rack on a vertical	horizontal beam of a rack on a vertical	9. A mounting bracket for mounting a
member of a rack, comprising:	member of a rack, comprising an L-shaped	member of a rack, comprising.
	flange, having a substantially flat interior	0
an L-snaped member, naving a	surface and an exterior surface and defining	an L-shaped member, having a
substantially rial interior surface and an	first and second legs, the first leg having	substantially flat interior surface and an
exterior surface and defining first and	two lugs protecting inwardly from its	exterior surface and defining first and
second legs, said first leg having two lugs	interior surface and defining first and	second legs, said first leg having two lugs
protecting inwardly from its interior	second openings, the second opening	projecting inwardly from its interior
surface and defining first and second holes,	having a slot portion, and wherein the	surface and defining first and second holes.
said second hole having a narrow width	interior surface defines a recess adjacent to	said second hole having a narrow width
portion, and wherein said interior surface	slot portion.	portion, and wherein said interior surface



Present Patent Application Claims	Present Patent Application Claims	'109 Patent Claims
defines a recess adjacent to said narrow width portion.		defines a recess adjacent to said narrow width portion, leaving a non-recessed narrow portion
44. A mounting bracket as recited in claim	59. The beam flange of claim 58, and	10. A mounting bracket as recited in claim
43, and further comprising a resilient	further comprising a resilient latch	9, and further comprising a resilient
member mounted on said first leg, said	mounted on the first leg, the resilient latch	member mounted on said first leg, said
resilient member including a clip extending	including a clip extending through the	resilient member including a clip extending
through said second hole and retained in	second opening and retained in the recess.	through said second hole and retained in
45. A mounting hracket as recited in claim	60 The heam flance of claim 50 whomin	said recess.
44, wherein said resilient member further	<b>-</b>	10 wherein said resilient member further
includes a locking pin which extends	pin which extends through the first	includes a locking pin which extends
through said first hole.	opening.	through said first hole.
46. A mounting bracket as recited in claim	61. The beam flange of claim 60, wherein	12. A mounting bracket as recited in claim
45, wherein said locking pin has a shank	the locking pin has a shank and a locking	11, wherein said locking pin has a shank
and an enlarged head and said first hole	pin flange and the first opening defines an	and an enlarged head and said first hole
delines an enlarged width portion large	enlarged aperture large enough to permit	defines an enlarged width portion large
through to permit the emarged nead to pass	ule locking pin riange to pass through and a	enough to permit the enlarged head to pass
unough and a narrower which portion,	slot portion, which is wide enough to	through and a narrower width portion,
to pass through but not wild permit the snank	permit the shank to pass through but not	which is wide enough to permit the shank
permit the enlarged head to pass through	flance to pass through	to pass through but not wide enough to
47. A mounting bracket as recited in claim	62. The beam flange of claim 61, wherein	13 A mounting bracket as recited in claim
46, wherein said interior surface also	the interior surface also defines a recess	12, wherein said interior surface also
defines a recess adjacent to the narrower	adjacent to the slot portion of the first	defines a recess adjacent to the narrower
width portion of said first hole, in order to	opening, to permit the locking pin flange to	width portion of said first hole, in order to
permit the emarged head to be retracted to	be retracted to a position substantially flush	permit the enlarged head to be retracted to
interior surface.	with the interior surface.	a position substantially flush with said
		inicioi sultace.

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Present Patent Application Claims	Present Patent Application Claims	'109 Patent Claims
		14. A mounting bracket as recited in claim 9, wherein said bracket further defines at least one outwardly-projecting ear.
48. A rack, including:	63. A rack, including:	15. A rack, including:
a plurality of vertical members defining a plurality of vertical member holes, and a plurality of horizontal beams supported on said vertical members;	a plurality of vertical posts defining a plurality of vertical post holes, and a plurality of horizontal beams supported on the vertical posts;	a plurality of vertical members defining a plurality of vertical member holes, and a plurality of horizontal beams supported on said vertical members;
a mounting bracket at the end of one of said horizontal beams, including an L-shaped member, having a substantially flat interior surface and an exterior surface and defining first and second legs, said first leg having at least two lugs projecting inwardly from its interior surface, said two lugs being received in two of said too in	a mounting bracket at the end of one of the horizontal beams, including an L-shaped member, having a substantially flat interior surface and an exterior surface and defining first and second legs, the first leg having at least two lugs projecting inwardly from its	a mounting bracket at the end of one of said horizontal beams, including an L-shaped member, having a substantially flat interior surface and an exterior surface and defining first and second legs, said first leg having at least two lugs projecting inwardly from its interior surface, said two lugs
being received in two of said vertical member holes; wherein said first leg defines first and second holes, at least said first hole being aligned with one of said	interior surface, the two lugs being received in two of the vertical post holes; wherein the first leg defines first and second openings, at least the first	being received in two of said vertical member holes; wherein said first leg defines first and second holes, at least said first hole being aligned with one of said
vertical member holes, each of said first and second holes having an enlarged width	opening being aligned with one of the vertical post holes, each of the first and	vertical member holes, each of said first and second holes having an enlarged width
wherein said interior surface defines a	second openings having an enlarged aperture and a slot portion, wherein the	portion and a narrower width portion, wherein said interior surface defines a
width portions, and the recess adjacent to	adjacent to each of the slot portions;	recess adjacent to each of said narrower width portions, and the recess adjacent to
hole terminates short of its respective	alic	the narrower width portion of said second hole terminates short of its respective

Present Patent Application Claims	Present Patent Application Claims	'109 Patent Claims
enlarged width portions; and		enlarged width portions; and
a resilient locking member including a clip mounted in the recess of said second hole, with said vertical member preventing said clip from moving further inwardly, and including a locking pin having a shank and an enlarged head, wherein the shank extends through said first hole and through the vertical member hole aligned with said first hole.	a resilient latch including a clip mounted in the recess of the second opening, with the vertical post preventing the clip from moving further inwardly, and including a locking pin having a shank and a locking pin flange, wherein the shank extends through the first opening and through the vertical post hole aligned with the first opening.	a resilient locking member including a clip mounted in the recess of said second hole, with said vertical member preventing said clip from moving further inwardly, and including a locking pin having a shank and an enlarged head, wherein the shank extends through said first hole and through the vertical member hole aligned with said first hole.
	орешив.	HIST note.
49. A method of assembling and disassembling a storage rack system, the method comprising the steps of:		
providing a beam member including a headed lug, a spaced apart opening, and a recess;		
connecting a latch assembly to the beam member, the latch assembly including a resilient arm and a locking pin extending from the resilient arm, such that		
the resilient arm biases the locking pin through the opening in the beam member;		
connecting the beam member to a post, such that the headed lug is received by a first opening in the post, and such that		

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disconnecting the beam member from the post.	preventing the locking pin from being completely withdrawn from the second opening in the beam member, such that the recess in the beam member limits the movement of the resilient arm; and	withdrawing the locking pin from the second opening in the post to allow the beam member to be disconnected from the post;	wherein the steps of disassembling the storage rack system include,	the resilient arm biases the locking pin at least partially into a second opening in the post; and	Present Patent Application Claims
					Present Patent Application Claims
					'109 Patent Claims